Ale

,	Application No.	Applicant(s)
. Notice of Allowability	09/484,348	SWIRHUN ET AL.
	Examin r	Art Unit
	Wai Sing Lauis	2814
	Wai-Sing Louie	2014
The MAILING DATE of this communication appears on the cover sheet with the correspond nce address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to 1/13/04.		
2. The allowed claim(s) is/are 22-35.		
3. The drawings filed on 18 January 2002 are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
(a) The translation of the foreign language provisional application has been received.		
6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No		
(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.		
(c) ☐ including changes required by the proposed drawing consistent med, this was the option of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).		
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachm nt(s)		
1☐ Notice of References Cited (PTO-892)		atent Application (PTO-152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08	· · · · · · · · · · · · · · · · · · ·	(PTO-413), Paper No nent/Comment
Paper No4 Examiner's Comment Regarding Requirement for Deposit	8∏ Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9 Other	

Application/Control Number: 09/484,348

Art Unit: 2814

DETAILED ACTION

Allowable Subject Matter

Claims 22-35 are allowed. The following is an examiner's statement of reasons for allowance:

The claimed invention is a monolithic optical transmitter and receiver pair comprising:

- A semiconductor substrate;
- An optical transmitter formed on a portion of the substrate;
- An optical receiver formed on the substrate, laterally adjacent to the optical transmitter; and
- An implanted isolation region formed on the substrate between the optical
 transmitter and the optical receiver, the isolation region isolating the optical
 receiver optically and electrically from the optical transmitter eliminating crosstalk between the receiver and the transmitter allowing the transmitter and the
 optical receiver to operate entirely independent from one another.

Reference Olbright et al. (US 5,266,794) do not disclose an implanted isolation region formed on the substrate between the optical transmitter and the optical receiver. In Olbright's device the transmitter and the optical receiver operate together.

Reference Hasnain et al. (US 5,136,603) is a stacked structure, where the claimed invention is a side-by-side device.

Therefore, the above references do not disclose the claimed invention of present application and claims 22-35 are allowed.

Art Unit: 2814

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

RY XXAMINÉR

January 20, 2004.